

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:993205 CAPLUS
 DN 141:425088
 TI Water-repellent unsaturated polyester compositions
 IN Uchida, Kazushige; Kurashiki, Toshio; Agari, Yasuyuki; Otsuka, Keiko
 PA Matsushita Electric Works, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004323602	A2	20041118	JP 2003-117595	20030422
PRAI JP 2003-117595		20030422		

AB The invention relates to unsatd. polyester compns., useful for bathtubs, walls, artificial marbles, to give moldings having water-repellent surface layers with thickness $\geq 10 \mu\text{m}$. The compns. may further contain water-repellent macromonomers. Thus, a molding comprising a vinyl ester polymer (KF 47K-1), a macroazo initiator (VPS 1001), a monomeric initiator (Trigonox 121-50), and Me methacrylate showed water contact angle (JIS K 2396) before and after polishing 50- μm depth 104.9 and 92.8°, resp.

IT 794587-45-4P
 RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
 (unsatd. polyester moldings having water-repellent surface
 layers manufactured from water-repellent macro initiators and
 macromonomers)

RN 794587-45-4 CAPLUS
 CN Pentanoic acid, 4,4'-azobis[4-cyano-, polymer with α -[(3-aminopropyl)dimethylsilyl]- ω -[((3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)], KF 47K1 and methyl 2-methyl-2-propenoate (9CI)
 (CA INDEX NAME)

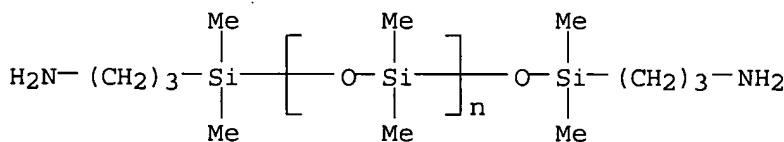
CM 1

CRN 793723-65-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

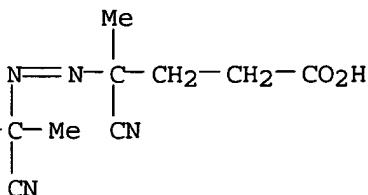
CM 2

CRN 97917-34-5
 CMF (C₂ H₆ O Si)_n Cl₁₀ H₂₈ N₂ O Si₂
 CCI PMS



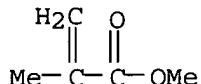
CM 3

CRN 2638-94-0
 CMF C₁₂ H₁₆ N₄ O₄



CM 4

CRN 80-62-6
CMF C5 H8 O2



L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:993027 CAPLUS
DN 141:412526
TI Method and coating solutions for forming water-repellent films on automotive or building glasses
IN Kumon, Soichi; Hatanaka, Kaname; Akamatsu, Yoshinori; Hamaguchi, Shigeo; Kuramasu, Haruki; Arai, Hiroaki
PA Central Glass Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004323250	A2	20041118	JP 2003-116153	20030421
PRAI JP 2003-116153		20030421		

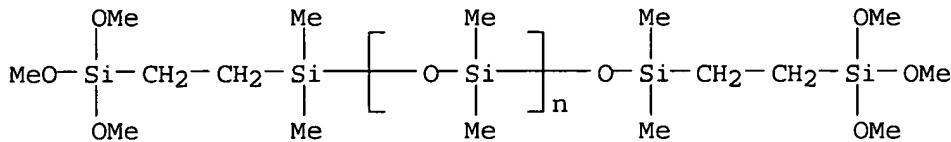
AB The films capable of sliding and dropping water droplets, are manufactured by adding water and acid catalysts to organic solvent solns. containing (1) R14-aSi(OR2)a (R1, R2 = hydrocarbyl; a = 3, 4), (2) (R3O)pMe3-pSiA1SiMe2(OSiMe2)nA2Si(OR4)qMe3-q (I; A1, A2 = hydrocarbylene, (CH2)iNHCO2, O; i = 0-9; R3, R4 = hydrocarbyl; n ≤ 2000; p, q = 0-3; p + q ≥ 3], and (3) B(CF2)rCH2CH2SiMe3-sXs (B = CF3, CH2CH2SiMe3-tYt; X, Y = hydrolyzable group; t = 1-3; r = 0-12; s = 1-3) to simultaneously hydrolyze and polycondense the 3 components to give precoating solns. The claimed coating solns. comprise the above 3 components, organic solvents, water, and acid catalysts and contain polycondensed products of the 3 components. Thus, a solution containing tetraethoxysilane, heptadecafluorodecyltrimethoxysilane, I (R3 = R4 = Me, p = q = 3, A1 = A2 = CH2CH2, n = 250) and HNO3 were stirred to give a polycondensed product-containing coating solution, which was applied on a glass plate, dried, heated, and cooled to give a transparent film showing contact angle 107°.

IT 792937-09-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coating solns. containing alkoxy silanes, alkoxy-terminated di-Me silicones, and fluoroalkylsilanes for forming water-repellent films on automotive or building glasses)

RN 792937-09-8 CAPLUS
CN Silicic acid (H4SiO4), tetraethyl ester, polymer with α-[dimethyl[2-(trimethoxysilyl)ethyl]silyl]-ω-[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]poly[oxy(dimethylsilylene)] and (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluorodecyl)trimethoxysilane (9CI) (CA INDEX NAME)

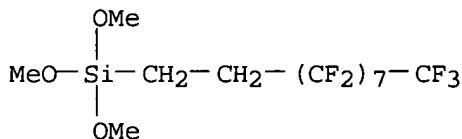
CM 1

CRN 160480-15-9
CMF (C₂ H₆ O Si)_n C₁₄ H₃₈ O₇ Si₄
CCI PMS



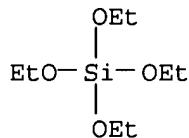
CM 2

CRN 83048-65-1
CMF C₁₃ H₁₃ F₁₇ O₃ Si



CM 3

CRN 78-10-4
CMF C₈ H₂₀ O₄ Si



L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:819983 CAPLUS

DN 141:340377

TI Fluororesins and photosensitive compositions therewith having good ink repellency and developability

IN Takahashi, Hideyuki; Ishiseki, Kenji

PA Asahi Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004277494	A2	20041007	JP 2003-68216	20030313
PRAI JP 2003-68216		20030313		

AB The fluororesins have ≥ 2 (/group)-F-substituted C ≤ 20 alkyls, (B) (SiR₁R₂O)_nSiR₁R₂R₃ [R₁, R₂ = H, (cyclo)alkyl, aryl; R₃ = H, C₁-10 organic group; n = 1-200 integer], and acidic groups and satisfy acid value 5-300 mg-KOH/g. Compns. of the fluororesins, photoacid generators, and crosslinking agents bearing two or more groups reactive with the acidic groups of the fluororesins, are also claimed. Compns. of the fluororesins, radical photopolymer initiators, and compds. bearing ≥ 2 ethylenic double bonds and free from acidic groups, are further claimed. These compns. provide fine patterns on ink-jet printers and are

useful for circuit-fabricating masks.

IT 769937-09-9P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photosensitive resin compns. containing polysiloxanyl-bearing fluororesins and showing good developability and ink repellency)

RN 769937-09-9 CAPLUS

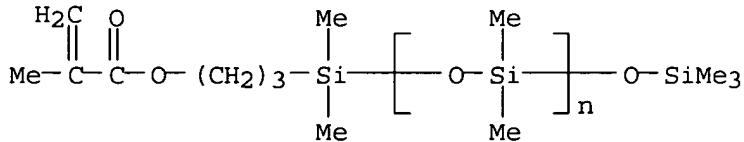
CN 2-Propenoic acid, 2-methyl-, polymer with cyclohexyl 2-methyl-2-propenoate, α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoroctyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C₂ H₆ O Si)_n C₁₂ H₂₆ O₃ Si₂

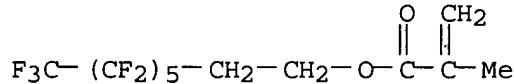
CCI PMS



CM 2

CRN 2144-53-8

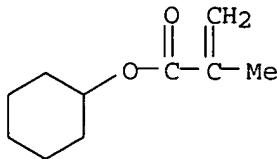
CMF C₁₂ H₉ F₁₃ O₂



CM 3

CRN 101-43-9

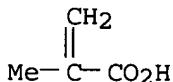
CMF C₁₀ H₁₆ O₂



CM 4

CRN 79-41-4

CMF C₄ H₆ O₂



L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:890694 CAPLUS

DN 143:250975

TI Polymer electrolyte compositions for fuel cells, compositions for fuel cell electrodes, and fuel cells

IN Owada, Satoshi; Kida, Masahiro

PA Aisin Seiki Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT.1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005228671	A2	20050825	JP 2004-37990	20040216

PRAI JP 2004-37990 20040216

AB The electrolyte compns. are block copolymers of vinyl monomers and dialkylsiloxanes and includes ion-exchangeable proton-conducting side chains derived from vinyl monomers. Preferably, the block copolymers having structures $(CH_2CR_1Y)_nZ(SiR_2R_3O)_m$ ($R_1-3 = H, C1-4$ alkyl; $X = H, carboxyl; Y = carboxyl, Ph, cyano, hydrolyzed silyl; Z = SiR_2R_3O, CONH$; $n, m = integer; \geq 1$ of X, Y , and R_1 contains proton-conducting group). Fuel cell electrode compns. consisting of the said electrolyte compns. containing redox catalyst powder and fuel cells containing the said electrolyte compns. or the electrode compns. are also claimed. The electrolytes have good balance of hydrophilic and hydrophobic structures.

IT 863322-48-9P

RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic-polysiloxane polyelectrolyte compns. for fuel cell electrolytes and fuel cell electrodes)

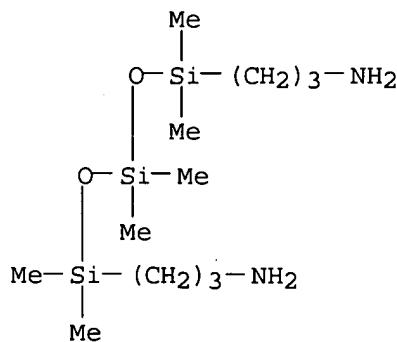
RN 863322-48-9 CAPLUS

CN Pentanoic acid, 4,4'-azobis[4-cyano-, polymer with 3,3'-(1,1,3,3,5,5-hexamethyl-1,5-trisiloxanediyl)bis[1-propanamine] and sodium ethenylbenzenesulfonate, block (9CI) (CA INDEX NAME)

CM 1

CRN 89467-59-4

CMF C12 H34 N2 O2 Si3



CM 2

CRN 27457-28-9

CMF C8 H8 O3 S . Na

CCI IDS



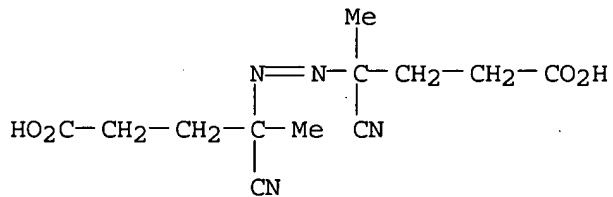
D1—CH=CH₂

D1—SO₃H

● Na

CM 3

CRN 2638-94-0
CMF C₁₂ H₁₆ N₄ O₄



L15 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:490391 CAPLUS

DN 143:27344

TI Fluoropolymer-modified polysiloxanes useful as oil repellents

IN Hupfield, Peter Cheshire

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005052030	A1	20050609	WO 2004-US38481	20041112
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	

PRAI GB 2003-27067 A 20031121

AB A polymeric product having oil repellent properties comprises an amino-functional polysiloxane (A) bonded through its amino groups to an addition copolymer (B) of (B1) a fluoro-substituted alkyl ester of an olefinically unsatd. carboxylic acid and (B2) an olefinically unsatd. monomer having a functional group capable of reacting with the amino groups of polysiloxane (A) and optionally (B3) one or more olefinically unsatd. co-monomers. The polymeric products are suitable for application to fibrous substrates such as textiles, leather and paper, to impart oil (oleophobicity) and water repellent (hydrophobicity) properties to the treated material.

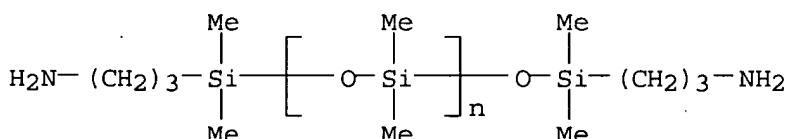
IT 97917-34-5DP, reaction products with glycidyl-containing fluoroacrylate polymers

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluoropolymer-modified polysiloxanes useful as oil repellents)

RN 97917-34-5 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(3-aminopropyl)dimethylsilyl]- ω -[(3-aminopropyl)dimethylsilyloxy] - (9CI) (CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:654500 CAPLUS

DN 137:187158

TI Aqueous protective polishing agents for hard surfaces

IN Tanetani, Toshiyuki; Takishita, Katsuhisa

PA Ishihara Yakuhin Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

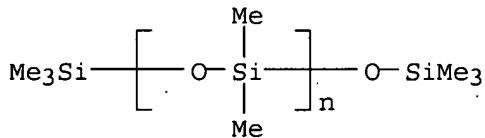
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002241705	A2	20020828	JP 2001-39148	20010215
PRAI	JP 2001-39148		20010215		
AB	Title agents comprise oily protective glossy components 5-50, surfactants 0.01-2, amphiphilic polymeric tackifiers 0.01-0.2, and UV absorbers 0.01-0.5% (preferably) and show a viscosity (VS) of 100-3,000 cSt. A composition comprising KF 96-350 10, KF 96-3000 10, Noigen ET 95 0.8, Noigen ES 0.01, Silwet FZ 2161 0.01, Pemulen TR 1 0.06, Uvinul MS 40 0.05, triethanolamine 0.06% with balanced amount of water showed VS 500 cSt, good emulsion condition at 50° for 1 mo, and good gloss, water repellency, and soil resistance at outdoor over 2 mo.				
IT	42557-10-8, KF 96-350				
	RL: TEM (Technical or engineered material use); USES (Uses) (aqueous polishes containing glossy components and UV absorbers and amphiphilic polymer tackifiers and surfactants for hard surfaces)				
RN	42557-10-8 CAPLUS				
CN	Poly[oxy(dimethylsilylene)], α -(trimethylsilyl)- ω -[(trimethylsilyl)oxy] - (9CI) (CA INDEX NAME)				



L15 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:776196 CAPLUS

DN 128:49415

TI Oil- and water-repellent F-containing polyurethanes, providing good laundry air-dry performance on fibrous substrates

IN Audenaert, Frans A.; Allewaert, Kathy E. M. L. A.; Hooftman, Gert; Nagase, Makoto; Lens, Hugo R.

PA Minnesota Mining and Manufacturing Company, USA

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9744375	A1	19971127	WO 1997-US8140	19970512
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2252902	AA	19971127	CA 1997-2252902	19970512
	AU 9730665	A1	19971209	AU 1997-30665	19970512
	EP 898588	A1	19990303	EP 1997-925563	19970512
	EP 898588	B1	20010627		
	R: BE, CH, DE, FR, GB, LI, NL				
	CN 1218483	A	19990602	CN 1997-194670	19970512
	CN 1136246	B	20040128		
	US 5910557	A	19990608	US 1997-855803	19970512
	BR 9709001	A	19990803	BR 1997-9001	19970512
	JP 2000511574	T2	20000905	JP 1997-542507	19970512
	KR 2000011010	A	20000225	KR 1998-709160	19981113
PRAI	EP 1996-107909	A	19960517		
	WO 1997-US8140	W	19970512		
AB	F-containing polyurethanes with the title properties are manufactured by reaction				

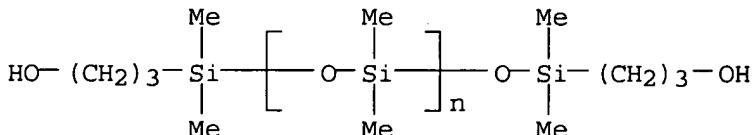
of (a) di-, tri-, or tetravalent isocyanates or their combinations, (b) ≥ 1 difunctional chain extender, (c) ≥ 1 blocking group, and a fluoroooligomer that is reactive the free NCO groups and is prepared by oligomerization of unsatd. fluorocompds. and optionally F-free unsatd. compds. in the presence of ≥ 1 functionalized chain-transfer agent. A typical F-containing polyurethane is manufactured by polymerization of 3 parts PAPI with 2 parts Arcol P1004 (polypropylene glycol) in the presence of 3 parts Me Et ketoxime and 2 parts oligomer prepared by polymerization of N-methylperfluorooctanesulfonamidoethyl acrylate in the presence of 2-mercaptopropanoic acid at a 4:1 ratio, resp.

IT 199856-43-4DP, reaction products with mercaptopropanoic acid - fluoroacrylic polymer adducts and NCO-reactive blocking agents
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (oil- and water-repellent F-containing polyurethanes, providing good laundry air-dry performance on fibrous substrates)

RN 199856-43-4 CAPLUS
 CN Isocyanic acid, polymethylenepolyphenylene ester, polymer with α -[(3-hydroxypropyl)dimethylsilyl]- ω -[(3-hydroxypropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] (9CI) (CA INDEX NAME)

CM 1

CRN 58130-02-2
 CMF (C₂ H₆ O Si)_n Cl₁₀ H₂₆ O₃ Si₂
 CCI PMS



CM 2

CRN 9016-87-9
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L15 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:746132 CAPLUS

DN 123:172559

TI High-performance oil- and water-repellent compositions, its use and substrates treated by

IN Coppens, Dirk M.; Allewaert, Kathy Emilie Augusta

PA Minnesota Mining and Manufacturing Co., USA

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 648890	A1	19950419	EP 1993-116871	19931019
	EP 648890	B1	19961211		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CA 2133173	AA	19950420	CA 1994-2133173	19940928
	JP 07216347	A2	19950815	JP 1994-245058	19941011
	US 5536304	A	19960716	US 1994-323381	19941014

PRAI EP 1993-116871 A 19931019

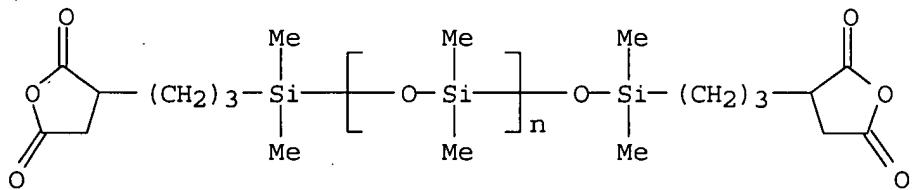
AB Title composition comprises a fluoroaliph. radical-containing agent and a cyclic carboxylic anhydride-containing polysiloxane. Addnl., the composition may comprise an extender and/or a plasticizer. The composition provides water- and oil repellent properties and a soft hand to fibrous and other substrates using a simple 1-step treatment. A blend of a succinic anhydride-terminated di-Me siloxane and a poly(fluoroalkyl methacrylate) was applied to cotton by solvent padding and dried to give a fabric with oil repellency rating 2, spray rating 90, and hand 4 (higher value correlates with softer feel), compared to 0, 50, and 2, resp., when di-Me siloxane was incorporated instead of the succinic anhydride-terminated di-Me siloxane.

IT 161205-23-8

RL: TEM (Technical or engineered material use); USES (Uses)
(in high-performance oil- and water-repellent compns.)

RN 161205-23-8 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-(tetrahydro-2,5-dioxo-3-furanyl)propyl]silyl]- ω -[[dimethyl[3-(tetrahydro-2,5-dioxo-3-furanyl)propyl]silyloxy]- (9CI) (CA INDEX NAME)



L15 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:266998 CAPLUS

DN 122:163427

TI Polysiloxanes with fluoroaliphatic- and carboxyl-containing terminal groups, their manufacture and use in the treatment of fibrous substrates and leather

PA Minnesota Mining and Manufacturing Co., USA

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4240274	A1	19940609	DE 1992-4240274	19921201
	DE 4240274	B4	20040212		
	DE 4244951	C2	19980806	DE 1992-4244951	19921201

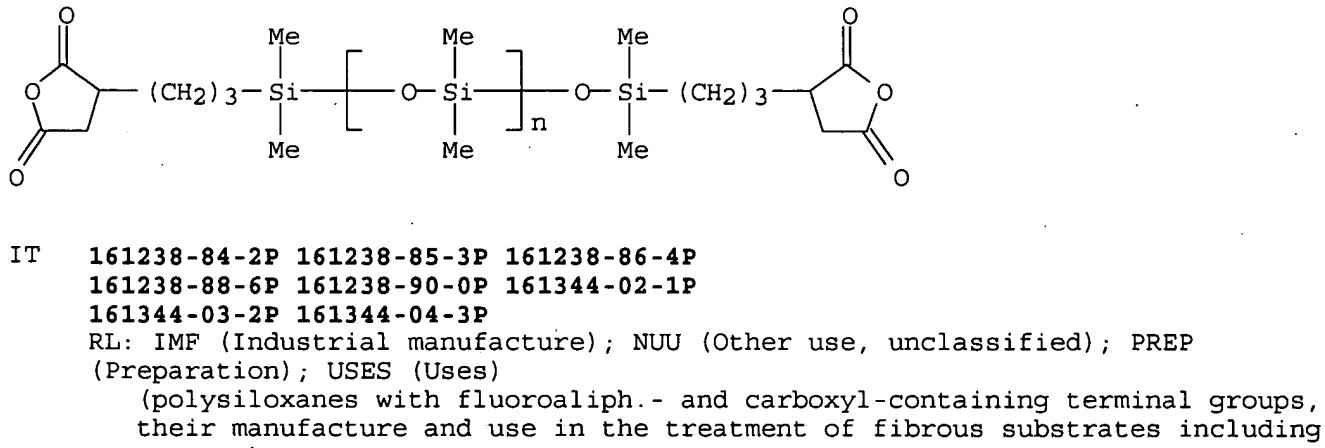
WO 9412561	A1	19940609	WO 1993-US10524	19931103
W: AU, BR, CA, JP, KR, NZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9454568	A1	19940622	AU 1994-54568	19931103
US 5385999	A	19950131	US 1993-147338	19931103
EP 672079	A1	19950920	EP 1993-925148	19931103
EP 672079	B1	19970806		
R: DE, ES, FR, GB, IT				
ES 2105350	T3	19971016	ES 1993-925148	19931103
BR 9307553	A	19990525	BR 1993-7553	19931103
CN 1089962	A	19940727	CN 1993-120698	19931130
CN 1036786	B	19971224		
PRAI DE 1992-4240274	A3	19921201		
WO 1993-US10524	W	19931103		

AB Polysiloxanes comprise fluoroaliph.- and carboxyl-containing terminal units connected to a diorganosilyloxy group or other terminal units connected to other diorganosilyloxy groups, or a cyclic carboxylic acid anhydride-containing group connected to other diorganosilyloxy groups, as well as carboxylic acid derivs. of the polysiloxane. A process for the manufacture of the polysiloxanes from the anhydride terminated polysiloxane, their use as oil-, soil- and waterproofing agents, and as a softener for leather, and the treated fibrous substrates are also claimed. The use of these siloxanes gives good water- and oilproofing to leather and cotton-polyester textiles and provides a soft hand. Di-Me siloxane terminated with succinic acid anhydride groups was reacted with N-methyl-N-(2-hydroxyethyl)-perfluorooctanesulfonamide, treated with NH₃, and was used to treat leather to give an oil-repellency rating 1-2, water repellency 3, spray rating 100, and a soft hand compared to 0, 1, 70, and dry, hard, sticky hand, resp., for a comparison, known product.

IT 161205-23-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(polysiloxanes with fluoroaliph.- and carboxyl-containing terminal groups, their manufacture and use in the treatment of fibrous substrates)

RN 161205-23-8 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-(tetrahydro-2,5-dioxo-3-furanyl)propyl]silyl]- ω -[[dimethyl[3-(tetrahydro-2,5-dioxo-3-furanyl)propyl]silyl]oxy] - (9CI) (CA INDEX NAME)



**IT 161238-84-2P 161238-85-3P 161238-86-4P
161238-88-6P 161238-90-0P 161344-02-1P
161344-03-2P 161344-04-3P**
RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses)
(polysiloxanes with fluoroaliph.- and carboxyl-containing terminal groups, their manufacture and use in the treatment of fibrous substrates including leather)

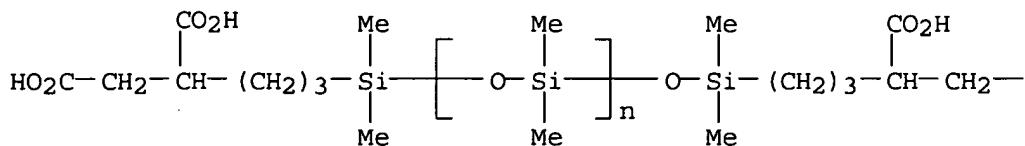
RN 161238-84-2 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(4,5-dicarboxypentyl)dimethylsilyl]- ω -[[4,5-dicarboxypentyl]dimethylsilyl]oxy]-, α,ω -bis[2-[(heptadecafluorooctyl)sulfonylmethylamino]ethyl] ester, diammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 161238-83-1
CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₉ Si₂
CCI PMS

PAGE 1-A

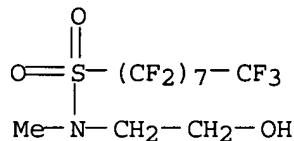


PAGE 1-B

— CO_2H

CM 2

CRN 24448-09-7
CMF C11 H8 F17 N O3 S

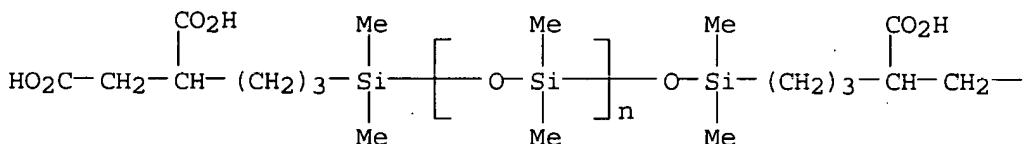


RN 161238-85-3 CAPLUS
CN Poly[oxy(dimethylsilylene)], α -[(4,5-dicarboxypentyl)dimethylsilyl]-
 ω -[[4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω -
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-
heneicosfluorododecyl) ester, diammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 161238-83-1
CMF (C2 H6 O Si)n C18 H34 O9 Si2
CCI PMS

PAGE 1-A



PAGE 1-B

— CO_2H

CM 2

CRN 865-86-1
CMF C12 H5 F21 O

HO—CH₂—CH₂—(CF₂)₉—CF₃

RN 161238-86-4 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(4,5-dicarboxypentyl)dimethylsilyl]- ω -[[[4,5-dicarboxypentyl]dimethylsilyl]oxy]-, α,ω -bis[1-(chloromethyl)-2-[2-[[heptadecafluoroctyl]sulfonyl]methylamino]ethoxy]ethyl ester, diammonium salt (9CI) (CA INDEX NAME)

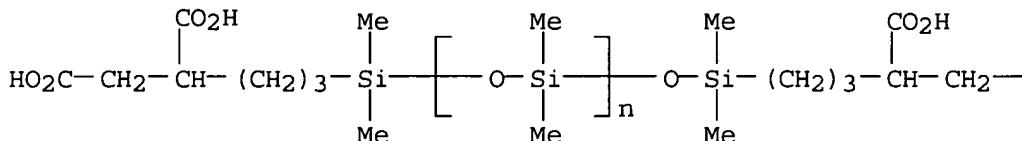
CM 1

CRN 161238-83-1

CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₉ Si₂

CCI PMS

PAGE 1-A



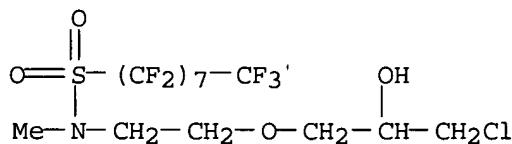
PAGE 1-B

—CO₂H

CM 2

CRN 100997-35-1

CMF C₁₄ H₁₃ Cl F₁₇ N O₄ S



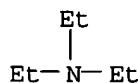
RN 161238-88-6 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[4(or 5)-carboxy-5(or 4)-[[2-[ethyl[(heptadecafluoroctyl)sulfonyl]amino]ethyl]amino]carbonyl]pentyl]dimethylsilyl]- ω -[[[4(or 5)-carboxy-5(or 4)-[[2-[ethyl[(heptadecafluoroctyl)sulfonyl]amino]ethyl]amino]carbonyl]pentyl]dimethylsilyl]oxy]-, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8

CMF C₆ H₁₅ N



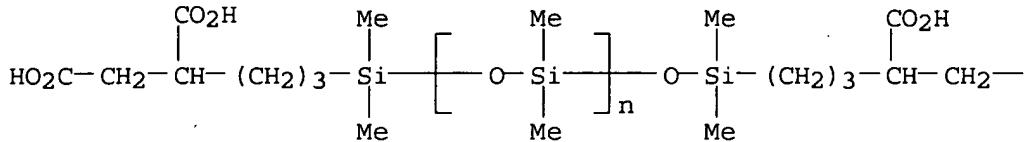
CM 2

CRN 161238-87-5
CMF (C₂ H₆ O Si)_n C₄₂ H₅₂ F₃₄ N₄ O₁₁ S₂ Si₂
CCI IDS, PMS

CM 3

CRN 161238-83-1
CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₉ Si₂
CCI PMS

PAGE 1-A

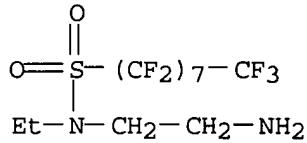


PAGE 1-B

— CO₂H

CM 4

CRN 13406-91-2
CMF C₁₂ H₁₁ F₁₇ N₂ O₂ S

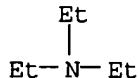


RN 161238-90-0 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(4,5-dicarboxypentyl)dimethylsilyl]- ω -[[[4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω -diester with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosfluoro-1-dodecanethiol, compd. with N,N-diethylethanamine (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8
CMF C₆ H₁₅ N



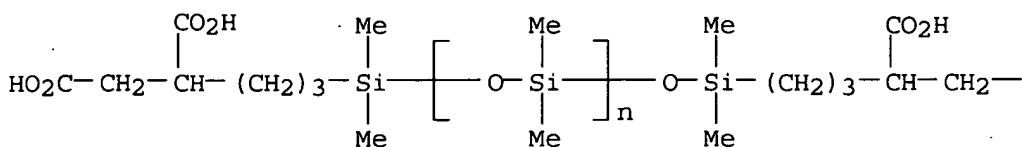
CM 2

CRN 161238-89-7
CMF (C₂ H₆ O Si)_n C₄₂ H₄₀ F₄₂ O₇ S₂ Si₂
CCI IDS, PMS

CM 3

CRN 161238-83-1
CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₉ Si₂
CCI PMS

PAGE 1-A



PAGE 1-B

— CO₂H

CM 4

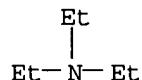
CRN 34451-28-0
CMF C₁₂ H₅ F₂₁ S

HS—CH₂—CH₂—(CF₂)₉—CF₃

RN 161344-02-1 CAPLUS
CN Poly[oxy(dimethylsilylene)], α-[(4,5-dicarboxypentyl)dimethylsilyl]-ω-[(4,5-dicarboxypentyl)dimethylsilyl]oxy-, α,ω-bis[2-[(heptadecafluoroctyl)sulfonyl]methylamino]ethyl ester, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8
CMF C₆ H₁₅ N



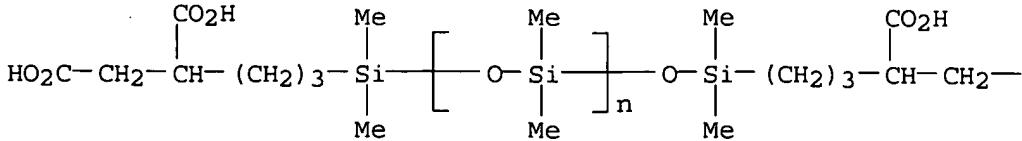
CM 2

CRN 161344-01-0
CMF (C₂ H₆ O Si)_n C₄₀ H₄₆ F₃₄ N₂ O₁₃ S₂ Si₂
CCI IDS, PMS

CM 3

CRN 161238-83-1
CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₉ Si₂
CCI PMS

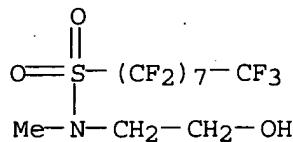
PAGE 1-A



— CO₂H

CM 4

CRN 24448-09-7
CMF C11 H8 F17 N O3 S

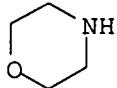


RN 161344-03-2 CAPLUS

CN Morpholine, compd. with α -[(4,5-dicarboxypentyl)dimethylsilyl]-
 ω -[[[4,5-dicarboxypentyl]dimethylsilyl]oxy]poly[oxy(dimethylsilylene)
)] α , ω -bis[2-[[heptadecafluoroctyl]sulfonyl]methylamino]ethyl
1] ester (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 110-91-8
CMF C4 H9 N O

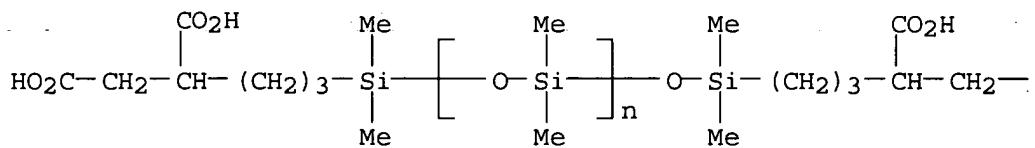


CM 2

CRN 161344-01-0
CMF (C₂ H₆ O Si)_n C₄₀ H₄₆ F₃₄ N₂ O₁₃ S₂ Si₂
CCI IDS, PMS

CM 3

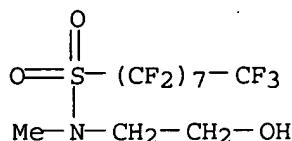
CRN 161238-83-1
CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₉ Si₂
CCI PMS



— CO₂H

CM 4

CRN 24448-09-7
CMF C11 H8 F17 N O3 S

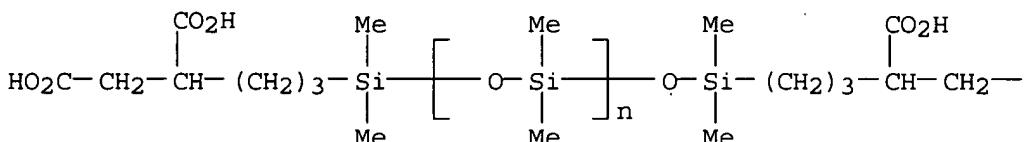


RN 161344-04-3 CAPLUS
CN Poly[oxy(dimethylsilylene)], α -[(4,5-dicarboxypentyl)dimethylsilyl]-
 ω -[[[(4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω -bis[2-
[[[heptadecafluoroctyl)sulfonyl)methylamino]ethyl] ester, dipotassium
salt (9CI) (CA INDEX NAME)

CM 1

CRN 161238-83-1
CMF (C2 H6 O Si)n Cl8 H34 O9 Si2
CCI PMS

PAGE 1-A

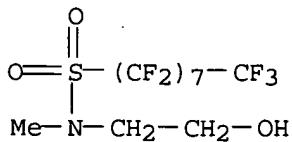


PAGE 1-B

— CO₂H

CM 2

CRN 24448-09-7
CMF C11 H8 F17 N O3 S



L15 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1969:69025 CAPLUS

DN 70:69025

TI Water repellents from silicon hydride polysiloxanes and silanes
having alkenyl radicals

IN Quaal, George J.

PA Dow Corning Corp.

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3423236	A	19690121	US 1964-402941	19641009
PRAI US 1964-402941	A	19641009		

AB Siloxane copolymers (I) prepared from silicon hydride siloxane polymers and alkenyl-containing silanes were cured with an aminoorganosilicon compound I can be used as a water **repellent** for fabrics, paper, glass, leather, wood, or masonry products. Thus, a mixture of 60 g. trimethylsilyl-endblocked methylhydrogenpolysiloxane having a viscosity of 32.9 cs. at 25°, 180 g. H₂C:CHSiMe₂OSiMe₃ and 0.2 g. of a mixture of 1% Pt-C was heated to 180° and refluxed for 2.5 hrs. to give 73.7 mole % [OSiMeCH₂CH₂SiMe₂OSiMe₃] and .apprx.26.3 mole % [MeSiHO], which had a viscosity of 3369 cs. at 25°. A solution of 3.5 g. of the siloxane copolymer, 120 ml. perchloroethylene and 0.3 g. (MeO)₃Si(CH₂)₃NHCH₂CH₂NH₂ was applied to tan sateen by dipping the fabric into the solution and then padding. The treated fabric was air dried and cured 3 min. at 176°. The treated fabric showed a spray rating of 100. The water **repellency** of the cured fabric was determined by using the spray rating test ASTM D-583-58 or the spray test of AATCC Standard Test Method 22-1961.

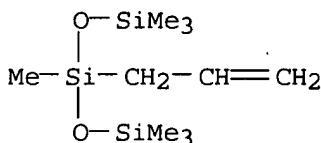
IT 7087-20-9

RL: USES (Uses)

(siloxanes from, for water **repellent** textiles)

RN 7087-20-9 CAPLUS

CN Trisiloxane, 1,1,1,3,5,5-heptamethyl-3-(2-propenyl)- (9CI) (CA INDEX NAME)



(FILE 'HOME' ENTERED AT 11:17:04 ON 30 OCT 2005)

FILE 'REGISTRY' ENTERED AT 11:20:20 ON 30 OCT 2005

L1 STRUCTURE UPLOADED

L2 50 S L1

L3 11023 S L1 FUL

FILE 'CAPLUS, CAOLD' ENTERED AT 11:21:17 ON 30 OCT 2005

L4 30 S L2

L5 10491 S L3

L6 0 S L4 AND LEATHER

L7 3 S L4 AND ?REPELLEN?

L8 0 S L4 AND WATERPROOF?

L9 24 S L4 AND ?SILOXANE

L10 1 S L9 AND CARBOXY?

L11 51 S L5 AND LEATHER

L12 6 S L11 AND ?REPELLEN?

L13 6 S L12 NOT L7

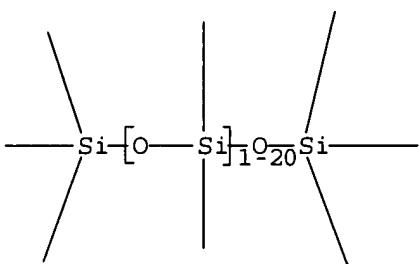
L14 6 S L13 NOT L10

L15 6 S L14 AND ?SILOXANE

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.